

CLAIMS

1. A parts conveying/mounting method in which parts are conveyed from a parts feeding section to a vicinity of a mounting portion of a mounted body flowing on a production line and mounted to the mounting portion, comprising:

a parts reception process in which parts are received from the parts feeding section by parts support means;

an automatic conveyance process in which automatic conveyance means is operated to move the parts received in said parts reception process from said parts feeding section to the vicinity of said flowing mounted body, to move synchronously with the flow of said mounted body, and further to return to said parts feeding section after completion of mounting of the parts;

a parts approach process in which in said automatic conveyance process, conveyance means mounted to said automatic conveyance means and connected to the parts support means moves said parts to the vicinity of the mounting portion of said mounted body by automatic conveyance; and

a mounting process in which said parts moved to the vicinity of said mounted body in said parts approach process are made into contact with the mounting portion and fixed to the mounting portion by manually operating the conveyance means through assist conveyance.

2. A parts conveying/mounting device in which parts are conveyed to a vicinity of a mounting portion of a mounted body

flowing on a production line from a parts feeding section and mounted to the mounting portion, comprising:

parts support means which freely supports said parts in a state sufficiently resistible to conveyance from the parts feeding section to the mounting portion of said mounted body;

first conveyance means constituted to travel on a floor surface of work place of a worker via an actuator and to bring said parts support means roughly in a vicinity of said parts to be mounted;

second conveyance means constituted to be connected with said parts support means and said first conveying means, to convey said parts support means to the mounting portion of said mounted body via an actuator; and

control means by which said first conveyance means is controlled to automatically move from said parts feeding section to the production line, to continue to move synchronously with the flow of the mounted body on the production line, and further to automatically move to said parts feeding section after completion of an operation to release the parts from said parts support means, by which the actuator is controlled to make said second conveyance means automatically move the parts supported by the parts support means to the vicinity of the mounting portion of the mounted body during conveyance performed by said first conveyance means synchronously with the flow of the mounted body, by which the actuator is controlled to make said parts support means automatically escape and move from the mounting portion of

the parts to be mounted after completion of the operation to release the parts from the parts support means, and by which the actuator is further controlled to switch conveyance mode of the second conveyance means to an assist mode after the second conveyance means makes the parts support means automatically move to the vicinity of the parts to be mounted.